

2009 WSU EXTENSION IRRIGATED HARD WINTER WHEAT NURSERY AT MOSES LAKE, WA.

Class	Variety Name	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2009					
					YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
HRW	ACS 52025		193	201	209	62.7	11.4	57	36	150
SWH	VW-30				199	60.7	12.0	77	39	151
HDWH	NUDAKOTA			184	197	63.2	11.9	27	33	149
SWH	VW-29				196	60.9	11.6	53	38	154
HRW	ML9W05-2506		181	183	195	63.7	11.5	13	38	150
HDWH	IDO651		154	159	195	62.4	12.8	77	47	150
HRW	WHETSTONE	162	176	183	194	62.3	12.2	0	36	148
SWH	STEPHENS	163	175	185	193	58.7	10.7	3	37	152
HRW	ACCIPITER			176	191	62.5	11.2	40	38	151
SWH	MJ-9				188	57.7	10.8	27	34	154
HRW	BC002-2			188	188	61.8	12.3	53	35	150
HRW	BOUNDARY	163	165	165	185	61.0	11.8	43	36	153
SWH	YIELDSTAR 45				185	59.0	11.4	47	39	154
SWH	WA008063				183	59.1	11.2	0	33	151
SWH	WA008065				181	60.1	11.9	27	37	152
SRW	DH99-55-2				179	59.4	11.4	57	37	151
HRW	EDDY	154	164	167	174	63.2	11.5	7	36	151
HRW	PEREGRINE				174	63.4	11.6	43	42	150
HDWH	PALOMINO	161	165	168	173	61.8	11.9	0	31	149
HDWH	UIDARWIN		150	152	172	62.4	11.4	83	40	151
SWH	WA008064				172	58.9	11.4	0	33	150
HRW	ESPERIA				172	61.7	12.5	0	29	148
SWH	FE-35				168	59.1	11.3	23	35	156
HRW	AGRIPRO PALADIN	152	156	158	167	61.5	12.1	27	36	152
HRW	BAUERMEISTER	142	158	156	162	60.0	12.0	73	39	156
HRW	IDO653		147	143	158	63.7	13.6	50	45	150
HRW	DECLO	146	144	156	157	60.4	12.0	0	34	152
HRW	NORWEST 553	160	155	167	151	61.6	12.1	0	28	154
HDWH	MOL				120	62.6	13.2	0	28	149
HDWH	MIETI				26	57.4	14.0	0	20	152
	C.V. %	7	6	5	6	0.9	3.1	79	6	1
	LSD '@.10'	6	7	8	14	0.8	0.5	33	3	2
	Average	156	163	170	173	61.1	11.9	30	36	151
	Highest	163	193	201	209	63.7	14.0	83	47	156
	Lowest	142	144	143	26	57.4	10.7	0	20	148

1. Grain yield in the Moses Lake irrigated hard winter wheat trial averaged 173 bu/ac and was 11% higher than the 5-year average for this site. This trial has a unique entry list and is not common to other hard winter wheat trials, but many of the entries overlap. There are hard red, hard white, soft white, and soft red entries in this trial. These classes are designated in the column before the names. The Moses Lake nursery was located about 6 miles southeast of Moses Lake, WA (Randee Bergeson, cooperater).
2. This nursery was seeded on 22 October, 2008 following a crop of onions. Seed was placed at an 85#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was 100#N, 25#K, and 25#P applied in the fall. An additional 100#N was applied through the sprinkler irrigation system during the growing season. Seeding conditions produced good stands that overwintered well with only noticeable winter injury to the most vulnerable varieties. Alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 67% compared to previously used designs.
3. Yields ranged from 26 bu/ac to 209 bu/ac, with a CV of 6%. Yield values within the LSD range of the highest yield are shown in bold and included four cultivars.
4. Most test weights were good with an average of 61.1 lb/bu. Lodging was highly variable with some cultivars expressing lodging early. Grain protein averaged 11.9% with a range of 10.7% to 14.0%. The average plant height was 36 inches.